UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

NOV 18 1992

MEMORANDUM

SUBJECT: Maline Creek/~~Owens-Corning~~ CERTAIN-TEED, St. Louis, Missouri, Transite Pipe and Debris Sampling, 10/29/92 (SBR20)

FROM: Paul E. Beatty
Environmental Engineer, AMON/EMCM/ENSV

TO: Ronald D. McCutcheon
Acting Branch Chief, EP&R/ENSV

THRU: Joe Arello
Chief, Air Monitoring Section, EMCM/ENSV

At the request of the Emergency Planning and Response Branch, Field Removal Section, the Air Monitoring Section conducted an inspection at Maline Creek, adjacent to the retired Certain-Teed transite pipe manufacturing facility in St. Louis, Missouri. The purpose of the inspection was to determine the condition and content of the pipe and debris along the bank of Maline Creek at the northwest end of the Certain-Teed property.

The inspection was performed on October 29, 1992, beginning at 8:45 a.m. and concluding at 11:15 a.m. The weather conditions were as follows; temperature 50°F, light winds, and 100 percent cloud cover.

Upon arrival at the site, I spoke with Mark Kootman, who represented the property owner, PG Investments. I informed him that I was on the site and explained to him that I was going to take some samples of the pipe and debris along Maline Creek.

I proceeded to the sampling site. For additional site and sample information, please see the attached Sample Site Diagram (Attachment 1), Sample Summary Sheet (Attachment 2), Chain of Custody Sheet (Attachment 3) and Sample Analysis (Attachment 4). Photographs (Attachment 5) were obtained of the sample sites and general sampling area.

Along the Certain-Teed side of Maline Creek, at the northwest corner of the property, the erosion of the creek bank has revealed a layer of debris and transite pipe. How far the debris extends into the bank is unknown. As the creek erodes away the bank, the debris layer is being undercut, causing it to

fall into the creek, further disturbing the site. Pipe and debris is scattered along the creek bed.

The layer consists of a 2 to 5 foot thick layer of transite pipe debris sandwiched between two layers of a cementitious material, each 1 to 2 foot thick. Samples SBR20-001, SBR20-002 and SBR20-003 were obtained from the upper surface of the top cementitious layer, along the top edge of the creek bank at the northwest corner of the property. The layers of cementitious material appeared to be similar in color, texture and materials. The three samples collected from the area were friable (crushed and reduced to a powder by finger pressure), gray in color, granular with some visible fibers present. Analysis showed the samples to contain 15 to 20 percent chrysotile and 2 to 5 percent crocidolite.

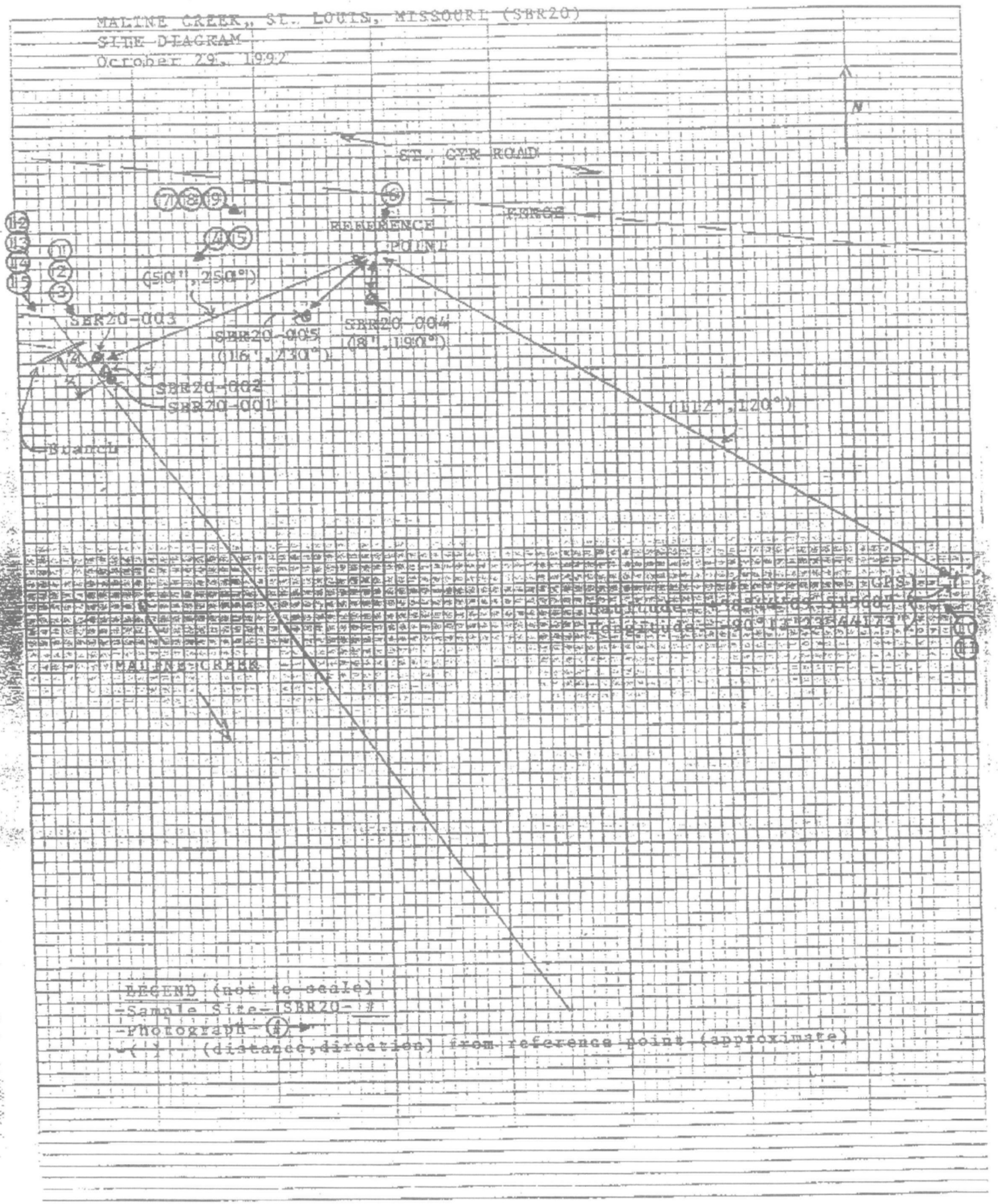
Similar cementitious material was visible on the surface of the dirt area between the creek bank and the paved trailer storage area, approximately 50 feet wide. Samples SBR20-004 and SBR20-005 were obtained from this area. Analysis showed the samples contain 8 to 15 percent chrysotile and 4 to 5 percent crocidolite. They were similar in appearance to samples SBR20-001, SBR20-002 and SBR20-003. Transite and cementitious debris is scatter and exposed throughout the dirt area.

Some of the transite appears to be deteriorating due to weathering and is presently friable or is becoming so. During the inspection no visible emissions were observed, but due to the friability of the cementitious debris and the deterioration of the transite, fiber release is probable. The chance of fiber release will increase as the transite deteriorates.

Attachments

1. Sample Site Diagram, 1 page.
2. Sample Summary Sheet, 1 page.
3. Chain of Custody Sheet, 1 page.
4. Sample Analysis, 5 pages.
5. Photographs, 5 pages.

ATTACHMENT 1


MALINE CREEK, ST. LOUIS, MISSOURI (SBR20)
SITE DIAGRAM
October 29, 1992
N
ST. CYR ROAD
FENCE
REFERENCE POINT
(50', 250°)
SBR20-003
SBR20-005
(16', 230°)
SBR20-004
(18', 190°)
SBR20-002
SBR20-001
(112', 120°)
Branch
MALINE CREEK
GPS
LEGEND (not to scale)
-Sample Site-(SBR20- #
-Photograph- (#)
-( ) (distance,direction) from reference point (approximate)

ATTACHMENT 2

SAMPLE SUMMARY SHEET

Facility: Maline Creek/Certain-Teed

Address: St. Cyr Street, St. Louis, MO

Sampled by: Paul E. Beatty

Agency: U.S. EPA, Region VII

Date: 10/29/92 Activity #: SBR20

Sample#	Sample Site *	Sample Description	Quantity of ACM	Analysis Results	Photo #
SBR20-001	NW corner of site, top edge of creek bank	Gray, friable, granular with fibers	-	CHRY, 15% CROC, 5%	1,3
SBR20-002	NW corner of site, top edge of creek bank	"	-	CHRY, 20% CROC, 2%	2,3
SBR20-003	NW corner of site, top edge of creek bank	"	-	CHRY, 15% CROC, 3%	4,5
SBR20-004	NW corner of site, dirt area between creek and pavement	"	-	CHRY, 8% CROC, 4%	6,7
SBR20-005	NW corner of site, dirt area between creek and pavement	"	-	CHRY, 15% CROC, 5%	8,9

* Locate on site diagram.
(rev:3/4/92)

ATTACHMENT 3

IV 10/3/92

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
PAUL E. BEATTY	MALINE CREEK	29 / 10 / 92	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CONTAINER	PLASTIC BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	solid	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
SBR20-001		1								✓	ASBESTOS ANALYSIS
SBR20-002		1								✓	"
SBR20-003		1								✓	"
SBR20-004		1								✓	"
SBR20-005		1								✓	"

DESCRIPTION OF SHIPMENT

1 PIECE(S) CONSISTING OF _____ BOX(ES)

_____ ICE CHEST(S); OTHER 2# ICE BAG

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER: _____

_____ COURIER

X SAMPLER CONVEYED

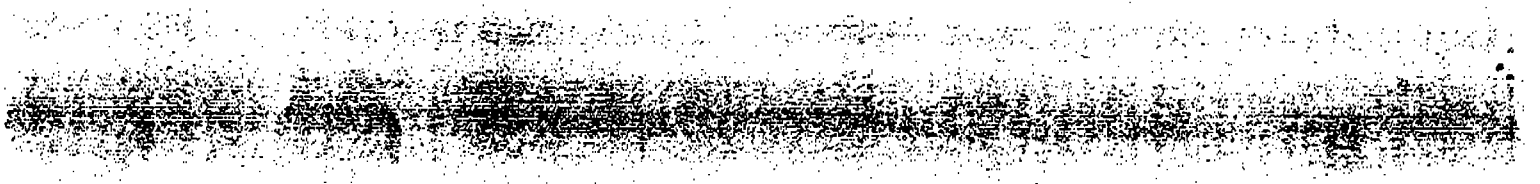
(SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
Paul E. Beatty ☐ SEALED ☒ UNSEALED	10/3/92	11:30	Barry Emons ☐ SEALED ☒ UNSEALED	ANALYSIS
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

7-EPA-9262(Revised 5/85)

ATTACHMENT 4



ANALYSIS REQUEST REPORT

LABORATORY APPROVED DATA
PROJECT LEADER APPROVAL PENDING

FOR ACTIVITY: SBR20

BEATTY, P.

11/09/92 11:27:19

ALL REAL SAMPLES AND FIELD Q.C.

* LABO APPROVED

FY: 93 ACTIVITY: SBR20 DESCRIPTION: MALINE CREEK SAMPLING LOCATION: ST. LOUIS MISSOURI

STATUS: ACTIVE TYPE: SAMPLING - IN HOUSE ANALYSIS PROJECT: S13

LABO DUE DATE IS 11/ 1/92. REPORT DUE DATE IS 11/ 8/92.

INSPECTION DATE: 10/29/92 ALL SAMPLES RECEIVED DATE: 10/30/92

ALL DATA APPROVED BY LABO DATE: 11/09/92 FINAL REPORT TRANSMITTED DATE: 00/00/00

EXPECTED LABO TURNAROUND TIME IS 2 DAYS EXPECTED REPORT TURNAROUND TIME IS 10 DAYS

ACTUAL LABO TURNAROUND TIME IS 10 DAYS ACTUAL REPORT TURNAROUND TIME IS 0 DAYS

SITE CODE: SITE:

SAMP. NO.	QCC	M	DESCRIPTION	SAMPLE # STATUS	CITY	STATE	AIRS/ STORET LOC NO	SECT	LAY-ER	BEG. DATE	BEG. TIME	END. DATE	END. TIME
001		S	ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				10/29/92	:	10/29/92	:
002		S	ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				10/29/92	:	10/29/92	:
003		S	ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				10/29/92	:	10/29/92	:
004		S	ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				10/29/92	:	10/29/92	:
005		S	ASBESTOS SAMPLE	1	ST. LOUIS	MISSOURI				10/29/92	:	10/29/92	:

EXPLANATION OF CODES AND INFORMATION ON ANALYSIS REQUEST DETAIL REPORT

SAMPLE INFORMATION:

SAMP. NO. = SAMPLE IDENTIFICATION NUMBER (A 3-DIGIT NUMBER) WHICH IN COMBINATION WITH THE ACTIVITY NUMBER AND QCC, PROVIDES AN UNIQUE NUMBER FOR EACH SAMPLE FOR IDENTIFICATION PURPOSES)

QCC = QUALITY CONTROL CODE (A ONE-LETTER CODE USED TO DESIGNATE SPECIFIC QC SAMPLES. THIS FIELD WILL BE BLANK FOR ALL NON-QC OR ACTUAL SAMPLES):
- A = TRUE VALUE FOR CALIBRATION STANDARD
- B = CONCENTRATION RESULTING FROM DUPLICATE LAB SPIKE
- C = MEASURED VALUE FOR CALIBRATION STANDARD
- D = MEASURED VALUE FOR FILED DUPLICATE
- F = MEASURED VALUE FOR FIELD BLANK
- G = MEASURED VALUE FOR METHOD STANDARD
- H = TRUE VALUE FOR METHOD STANDARD
- K = CONCENTRATION RESULTING FROM DUPLICATE FIELD SPIKE
- L = MEASURED VALUE FOR LAB DUPLICATE
- M = MEASURED VALUE FOR LAB BLANK
- N = MEASURED VALUE FOR DUPLICATE FIELD SPIKE
- P = MEASURED VALUE FOR PERFORMANCE STANDARD
- R = CONCENTRATION RESULTING FROM LAB SPIKE
- S = MEASURED VALUE FOR LAB SPIKE
- T = TRUE VALUE OF PERFORMANCE STANDARD
- W = MEASURED VALUE FOR DUPLICATE LAB SPIKE
- Y = MEASURED VALUE FOR FIELD SPIKE
- Z = CONCENTRATION RESULTING FROM FIELD SPIKE

M = MEDIA CODE (A ONE-LETTER CODE DESIGNATING THE MEDIA OF THE SAMPLE):
- A = AIR
- H = OTHER (DOES NOT FIT ANY OTHER CATEGORY)
- S = SOLID (SOIL, SEDIMENT, SLUDGE)
- T = TISSUE (PLANT & ANIMAL)
- W = WATER (GROUND WATER, SURFACE WATER, WASTE WATER, DRINKING WATER)

DESCRIPTION = A SHORT DESCRIPTION OF THE LOCATION WHERE SAMPLE WAS COLLECTED

AIRS/STORET LOC. NO. = THE SPECIFIC LOCATION IDENTIFICATION NUMBER FOR EITHER OF THESE NATIONAL DATABASE SYSTEMS, AS APPROPRIATE

DATE/TIME INFORMATION = SPECIFIC INFORMATION REGARDING WHEN THE SAMPLE WAS COLLECTED
- BEG. DATE = DATE SAMPLING WAS STARTED
- BEG. TIME = TIME SAMPLING WAS STARTED
- END DATE = DATE SAMPLING WAS COMPLETED
- END TIME = TIME SAMPLING WAS COMPLETED
- NOTE: A GRAB SAMPLE WILL CONTAIN ONLY BEG. DATE/TIME. A TIMED COMPOSITE SAMPLE WILL CONTAIN BOTH BEG AND END DATE/TIME TO DESIGNATE DURATION OF SAMPLE COLLECTION

OTHER CODES:
- V = VALIDATED

ANALYTICAL RESULTS/MEASUREMENTS INFORMATION:

COMPOUND = MGP (MEDIA-GROUP-PARAMETER) CODE AND NAME OF THE MEASURED CONSTITUENT OR CHARACTERISTIC OF EACH SAMPLE

UNITS = SPECIFIC UNITS IN WHICH RESULTS ARE REPORTED:
- C = CENTIGRADE (CELSIUS) DEGREES
- CFS = CUBIC FEET PER SECOND
- GPM = GALLONS PER MINUTE
- IN = INCHES
- I.D. = SPECIES IDENTIFICATION
- KG = KILOGRAM
- L = LITER
- LB = POUNDS
- MG = MILLIGRAMS (1 X 10-3 GRAMS)
- MGD = MILLION GALLONS PER DAY
- MPH = MILES PER HOUR
- MV = MILLIVOLT
- M/F = MALE/FEMALE
- M2 = SQUARE METER
- M3 = CUBIC METER
- NA = NOT APPLICABLE
- NG = NANOGRAMS (1 X 10-9 GRAMS)
- NTU = NEPHELOMETRIC TURBIDITY UNITS
- PC/L = PICO (1 X 10-12) CURRIES PER LITER
- PG = PICOGRAMS (1 X 10-12 GRAMS)
- P/CM2 = PICOGRAMS PER SQUARE CENTIMETER
- SCM = STANDARD CUBIC METER (1 ATM, 25 C)
- SQ FT = SQUARE FEET
- SU = STANDARD UNITS (PH)
- UG = MICROGRAMS (1 X 10-6 GRAMS)
- UMHOS = MICROMHOS/CM (CONDUCTIVITY UNITS)
- U/CC2 = MICROGRAMS PER 100 SQUARE CENTIMETERS
- U/CM2 = MICROGRAMS PER SQUARE CENTIMETER
- 1000G = 1000 GALLONS
- +/- = POSITIVE/NEGATIVE
- # = NUMBER

DATA QUALIFIERS = SPECIFIC CODES USED IN CONJUNCTION WITH DATA VALUES TO PROVIDE ADDITIONAL INFORMATION ON THE REPORTED RESULTS, OR USED TO EXPLAIN THE ABSENCE OF A SPCIFIC VALUE:
- BLANK = IF FIELD IS BLANK, NO REMARKS OR QUALIFIERS ARE PERTINENT. FOR FINAL REPORTED DATA, THIS MEANS THAT THE VALUES HAVE BEEN REVIEWED AND FOUND TO BE ACCEPTABLE FOR USE.
- I = INVALID SAMPLE/DATA - VALUE NOT REPORTED
- J = DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
- K = ACTUAL VALUE OF SAMPLE IS < VALUE REPORTED
- L = ACTUAL VALUE OF SAMPLE IS > VALUE REPORTED
- M = DETECTED BUT BELOW THE LEVEL OF REPORTED VALUE FOR ACCURATE QUANTIFICATION
- O = PARAMETER NOT ANALYZED
- U = ACTUAL VALUE OF SAMPLE IS < THE MEASUREMENT DETECTION LIMIT (REPORTED VALUE)

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 3-SBR20

LABORATORY APPROVED DATA
PROJECT LEADER APPROVAL PENDING

COMPOUND	UNITS	001	002	003	004	005
SB02 CHRYSOTILE, BULK	%	15	20	15	8	15
SB03 AMOSITE, BULK	%	0.0	0.0	0.0	0.0	0.0
SB04 CROCIDOLITE, BULK	%	5	2	3	4	5
SB05 TREMOLITE, BULK	%	0.0	0.0	0.0	0.0	0.0
SB06 ACTINOLITE, BULK	%	0.0	0.0	0.0	0.0	0.0
SB07 ANTHOPHYLLITE, BULK	%	0.0	0.0	0.0	0.0	0.0
ZZ01 SAMPLE NUMBER	NA	001	002	003	004	005
ZZ02 ACTIVITY CODE	NA	SBR20	SBR20	SBR20	SBR20	SBR20

LABORATORY APPROVED DATA
PROJECT LEADER APPROVAL PENDING

ACTIVITY SBR20 MALINE CREEK SAMPLING

THE PROJECT LEADER SHOULD CIRCLE ONE - STORET, AIRS, OR ARCHIVE.

CIRCLE ONE: STORET AIRS ARCHIVE

DATA APPROVED BY LABO FOR TRANSMISSION TO PROJECT LEADER ON 11/09/92 11:27:19 BY Robert Brenall for BJ

DATA QUALITY REPORT

FOR ACTIVITY 95BR20

= NO QC FILE
*** = INSUFFICIENT DATA

(1) EXPRESSED AS THE MEAN RELATIVE STANDARD DEVIATION
(2) EXPRESSED AS PERCENT OF SPIKE RECOVERY

MGP NUM	PARAMETER DESCRIPTION	UNITS	TOTAL METHOD DETECTION LIMIT	QC USED	TOTAL (1) METHOD PRECISION	QC USED	TOTAL (2) METHOD ACCURACY	QC USED
SB02	CHRYSOTILE, BULK	%	0.000	(M)	10.6	(,D)	###	
SB03	AMOSITE, BULK	%	0.000	(M)	13.5	(,D)	###	
SB04	CROCIDOLITE, BULK	%	***		58.1	(,D)	###	
SB05	TREMOLITE, BULK	%	***		0.000	(,D)	###	
SB06	ACTINOLITE, BULK	%	0.000	(M)	0.000	(,D)	###	
SB07	ANTHOPHYLLITE, BULK	%	0.000	(M)	0.000	(,D)	###	
ZZ01	SAMPLE NUMBER	NA	###		###		###	
ZZ02	ACTIVITY CODE	NA	###		###		###	

*** END OF REPORT ***